

**LISTING OF THE CLAIMS**

The claims as pending are:

**1 to 65.** (canceled).

**66.** (previously presented): A library comprising a plurality of polynucleotides, each polynucleotide of the library comprising a vector and an insert, wherein each of the insert sequences consist essentially of accessible regions of cellular chromatin, wherein the library is obtained according to the method of:

(a) contacting cellular chromatin with a probe, wherein reaction of the probe with cellular chromatin results in polynucleotide cleavage at accessible regions of cellular chromatin;

(b) deproteinizing the cleaved chromatin of step (a);

(c) digesting the deproteinized chromatin of step (b) with a nuclease to generate a collection of polynucleotide fragments; and

(d) selectively cloning polynucleotide fragments comprising one end generated by probe cleavage.

**67.** (previously presented): A library according to claim 66, wherein each insert sequence consists of an accessible region of cellular chromatin.

**68.** (previously presented): The library of claim 66, wherein the cellular chromatin is obtained from cells at a particular stage of development.

**69.** (previously presented): The library of claim 66, wherein the cellular chromatin is obtained from cells of a particular tissue.

**70.** (previously presented): The library of claim 66, wherein the cellular chromatin is obtained from diseased cells.

**71.** (previously presented): The library of claim 66, wherein the cellular chromatin is obtained from infected cells.

**72 to 124.** (canceled).

**125.** (previously presented): The library of claim 66, wherein, in step (a), the probe is a nuclease.

**126.** (previously presented): The library of claim 125, wherein the nuclease is a restriction enzyme.

**127.** (previously presented): The library of claim 126, wherein the probe comprises a plurality of restriction enzymes.

**128.** (previously presented): The library of claim 66, wherein, in step (c), the nuclease is a restriction enzyme.